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U.S. DEPARTMENT OF AGRICULTURE

SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for the

A  
COLORADO RIVER DRAINAGE BASIN

April 1, 1944

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Issued by the  
United States Department of Agriculture  
Soil Conservation Service  
Division of Irrigation  
In Cooperation with  
The Colorado Agricultural Experiment Station  
Colorado State College  
Fort Collins, Colorado

April 10, 1944

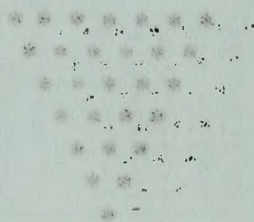


SOIL SURVEYS AND IRRIGATION WATER FORECASTS

for the

CHOCOMA RIVER DRAINAGE BASIN

April 1, 1944



Issued by the  
United States Department of Agriculture  
Soil Conservation Service  
Division of Irrigation  
In cooperation with  
The Colorado Agricultural Experiment Station  
Colorado State College  
Fort Collins, Colorado

April 10, 1944



# SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for

## COLORADO RIVER BASIN

April 1, 1944

The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, in cooperation with State departments, other federal bureaus and local organizations. The snow measurements are made principally by field personnel of the following Federal Government organizations: Forest Service, National Park Service, Geological Survey, Bureau of Reclamation, Indian Service; and the Utah Agricultural Experiment Station. This work is otherwise conducted cooperatively with the State Engineers of Utah, Colorado, New Mexico and of Wyoming, U. S. Geological Survey, Utah and Colorado Agricultural Experiment Stations, and various municipalities, irrigation associations, power companies, and others. Precipitation records are supplied by the U. S. Weather Bureau.

### SUMMARY OF APRIL 1 SNOW SURVEYS AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

WATERSHEDS	Snow Depth			Water Content			Number Courses in Average	Snow Density			1944 Water Content in percent of	
	1943			1944				1943			1944	
	Nine Year Avg.*	1943	1944	Nine Year Avg.*	1943	1944		Nine Year Avg.*	1943	1944	Nine Year Avg.*	1943
	In.	In.	In.	In.	In.	In.		Percent	Percent	Percent	Percent	Percent
COLORADO RIVER												
Green River	42.3	47.8	44.6	13.5	16.6	13.3	22	32	35	30	99	80
Colorado River**	44.1	45.1	40.8	13.1	14.5	10.6	20	30	32	26	81	73
Yampa River	54.4	56.3	53.3	17.6	20.2	14.2	4	32	36	27	81	70
White River	49.8	44.0	45.8	16.8	14.6	13.2	2	34	33	29	79	90
Gunnison River	52.2	49.6	55.5	16.7	16.8	17.4	10	32	34	31	104	104
Dolores River	39.4	43.1	43.5	12.5	14.8	13.9	4	32	34	32	111	94
San Juan River	43.7	36.9	50.9	15.5	14.2	18.3	7	35	38	36	118	129
Gila River	0.5	0.0	0.2	0.2	0.0	0.1	9	40	--	50	50	--
Colorado River***	41.9	29.4	52.8	13.6	9.8	14.7	6	33	33	28	108	150
Virgin River	45.4	43.3	53.9	16.5	18.1	20.0	5	36	42	37	121	110

\*Some for shorter periods

\*\*Above Grand Junction, Colorado

\*\*\*Green to Virgin River



# PRECIPITATION DATA

WATERSHED	STATE	Precipitation October 1 to March 31, Inches	Departure from Normal Inches	Precipitation March Inches	Departure from Normal Inches
Colorado	Colorado	7.89	-1.52	2.12	+0.21
Green	Wyoming	5.78	+1.03	1.27	+0.36
San Juan	New Mexico	4.42	-0.68	0.57	-0.33
Gila	Arizona	8.32*	+0.45*	1.32*	+0.06*
Gila	New Mexico	2.90	-2.20	0.48	-0.32

\*Based on incomplete returns.

Over the watershed of the Colorado and its tributaries in Colorado and western Wyoming, March precipitation was above normal, but it was below normal over the San Juan and Gila drainages in New Mexico and Arizona. The accumulated precipitation from October 1 to March 31 is considerably below normal except on the Green River in Wyoming and the Salt River in Arizona.

## WATER SUPPLY OUTLOOK

**COLORADO RIVER AND TRIBUTARIES IN COLORADO:** On the headwaters of these streams the present water content of the snow averages about 3/4 of that of one year ago. For the Colorado, above Grand Junction, the water content of the snow is only 81 percent of the normal and the runoff of the Colorado at Glenwood Springs, April-July 1944, is expected to be 1,230,000 acre-feet. For this same period the Roaring Fork will flow 680,000 acre-feet. In the Grand Lake area, headwaters of the Colorado, the water content of the snow is only 70 percent of that last year. On Loveland and Shrine Passes the snow now contains, on the average, 12 inches of water as compared with 21 inches a year ago. Unless the April and May precipitation over the Blue River drainage exceeds the normal, the coming runoff will not be more than 60 percent of 1943.

For the Gunnison drainage the present water content of the snow is approximately the same as last year and the runoff is expected, however, to be less than last season except for the North Fork which may reach a total April-July flow of 400,000 acre-feet at Somerset. On Grand Mesa the water content of the snow averages nearly 40 percent more than last year and 20 percent above the past 9-year average.



Plateau and Surface creeks will be above normal and the lakes on Grand Mesa will be filled to capacity. The Uncompahgre River is expected to exceed normal flow this season. Taylor Park reservoir is now filled to 80 percent capacity and will fill before the start of the coming irrigation season. March storms over this drainage have greatly improved the general water supply outlook. Soil moisture is good to excellent in their irrigated areas, range conditions good and stream flow normal.

Snow cover on the Yampa drainage is 70 percent of that last year. It is estimated that the river flow at Steamboat Springs will be 200,000 acre-feet for the coming April-July period and will be ample to satisfy all irrigation needs during the early season. The late water supply will probably be deficient. Generally the soil moisture conditions in this valley are fair to good and the present stream flow normal. High stage of the river is not expected this season. The Elk River, tributary to the Yampa, will not exceed the flow of last year.

For the White River, the water content of the snow over the drainage, averages 90 percent of last April first and the river at Meeker is expected to reach a total flow of approximately 200,000 acre-feet during the coming April-July period. The snow cover on Burro Mountain accumulated 5 inches of water during March to a total of 16 inches at the end of the month. Soil moisture in the valley is generally good.

For this section of Colorado the water supply for the coming season will be adequate except a possible moderate shortage during the late summer.

SAN JUAN AND DOLORES RIVERS. Snow cover conditions in the southwestern section of the State now indicate a favorable water supply for the coming irrigation season. The water content of the snow cover over the San Juan drainage is about 30 percent more than a year ago and for the Dolores only 6 percent under last year. The San Juan River flow at Pagosa Springs this coming April-July period will be about 275,000 acre-feet. For the Animas River at Durango the expected flow for this same period will be about 550,000 acre-feet. The water content of the snow cover on the Animas drainage averages about 30 percent more than last year at this time. Present reservoir storage throughout this part of the State is approximately 70 percent as compared with last year. For the Cortez area the storage now is about 40 percent over that of a year ago. During March general storms materially improved the outlook. On the west side of Wolf Creek Pass the water content of the snow increased 12 inches during March and the snow now contains a total of 42 inches of water. Soil moisture throughout the irrigated areas in San Juan, Dolores and tributary valleys is good and stream flow normal with rising stage due to melting of the snow at lower elevations. Precipitation in the Montezuma Valley area was above normal during March.



GREEN RIVER. The water content of the snow over the Green River drainage in western Wyoming and eastern Utah is now 80 percent of April 1st last year. The estimated flow of the Green River at Linwood, Utah, this coming April-July period will be 950,000 acre-feet. In the Finedale area heavy snows during March increased the water content of the snow cover which brightened the outlook for water this coming season. The irrigation supply for the upper Green River area is expected to be sufficient to meet requirements except possibly during late summer when the flow of the river will be low unless above average rainfall occurs. Soil moisture is generally good in the upper Green country and present stream flow somewhat improved over that of a year ago.

VIRGIN RIVER. The water content of the snow cover on the headwaters of this stream, in the southwest corner of Utah, is 10 percent greater than last year at this time and the expected runoff will be ample to meet the irrigation demand this coming season.

#### ARIZONA

GILA: The present water supply outlook for the Gila, as based on snow cover, is poor. Practically all snow courses located on the headwaters of this stream are bare and this stream and tributaries are now much below normal stage. Soil moisture over the San Carlos project is deficient but in the lower areas of the valley the soil is in fairly good condition. Unless above average rainfall occurs during the coming months to augment the irrigation supplies, it may be expected that the storage in the San Carlos reservoir will be practically depleted at the close of the season. The present storage in this reservoir is 272,000 acre-feet or just one-half the amount available last year at this time.

SALT RIVER AND TRIBUTARIES. At this time there is practically no snow at moderate elevations over the entire drainage areas of these streams. The higher mountain peaks, north slopes, are still covered, south slopes practically bare. The runoff from this high snow will probably add considerably to the present stream flow. The net gain in storage in the principal reservoirs on the Salt River, was 14,000 acre-feet on April 3rd. Available storage is now 1,286,000 acre-feet or 85 percent of the amount held a year ago. The Carl Pleasant reservoir on the Aqua Fria has 35,000 acre-feet in storage, or about seven times the quantity, April 1st last year. Over the Salt River project soil moisture is good and streams fed from melting snow are now above normal. In the Springerville area the soil moisture is good, stream flow above normal and the several small storage reservoirs full to capacity. Conditions generally are more favorable than a year ago.



## COLORADO RIVER WATERSHED

Summary of Federal and State Cooperative Snow Surveys  
Issued April 10, 1944, at Fort Collins, Colorado

No.	Main Drainage and Snow Course	Local Drainage	State	Location		Elev.	National Forest	Apr. 1 Snow Cover Measurements			
				Locality	Description			Av. Snow Depth	Snow Depth	Av. Water Content	Water Content
								1943	1944	1943	1944
								In.	In.	Av. @	In.
<b>GREEN RIVER</b>											
44	East Rim Divide	Fish Creek	Wyo.	13mi. SE. Bonanza	32-37N-111W	7950	Teton	38.9	54.2	31.4	11.7
23	Dutch Joe R.S.	Dutch Joe Cr.	"	12mi. N. Elkhorn	33-31N-104W	8700	Wyoming	--	41.2	--	18.1
24	Mulligan Park	Surveyor Cr.	"	Fremont Lake	17-35N-108W	8900	"	36.0	46.8	26.5	11.9
25	Kendall R.S.	Green River	"	27mi. NW. Pinedale	23-38N-110W	7900	"	32.2	53.3	24.7	15.9
26	Loomis Park	Beaver Cr.	"	25mi. NW. "	14-37N-111W	8500	"	47.7	67.7	43.3	21.0
27	Snyder Basin R.S.	S. Piney Cr.	"	22mi. W. Big Piney	15-29N-114W	8040	"	37.2	63.3	33.1	26.7
28	Piney-LaBarge	LaBarge Cr.	"	24mi. W. Big Piney	19-29N-114W	8820	"	48.9	71.8	46.3	23.4
29	Daniels-Strawberry	Strawberry R.	Utah	20mi. NE. Provo	17&20-2S-12W	8000	Uinta	44.0	50.8	45.1	29.7
30	Lost Lake	Provo River	"	13mi. E. Kamas	4&5-2S-9E	9900	Wasatch	70.1	91.2	72.0	18.2
31	East Portal	Strawberry L.	"	25mi. E. Provo	36-7S-6E	7600	Uinta	37.8	42.4	38.7	34.7
32	East Portal	"	"	24mi. E. Provo	34&35-7S-6E	8000	"	60.5	68.0	62.0	14.1
33	East Portal	"	"	33mi. SE. Evanston	33-3N-13E	9500	Wasatch	35.3	38.5	40.6	20.3
34	Revinata R.S.	West Fork	"	47mi. SE. "	13-2N-15E	9150	Ashley	26.4	27.5	40.0	10.9
35	Hole-In-Rock	Beaver Cr.	"	4mi. E. Moon Lake	2&3-2N-5W	10500	"	46.2	50.3	55.3	12.2
36	Lake Fork Mtn.	Yellowstone Cr.	"	25mi. NW. Vernal	7-3N-1E	10500	"	--	45.4	--	14.8
37	Paradise Park	Whiterocks R.	"	22mi. " "	5-2N-1E	9700	"	--	42.9	--	13.9
38	Mosby Mtn.	"	"	18mi. N. Vernal	22-1S-21E	8800	"	36.7	31.6	50.6	10.9
39	King's Cabin	Brush Creek	"	27mi. SW. Duchesne	2-11S-10E	9100	Uinta	37.3	35.9	48.2	10.6
40	Indian Canyon	Strawberry R.	"	7mi. NE. Fairview	25-11S-5E	8700	Manti	58.3	50.8	53.2	16.8
41	Gooseberry Res.	Gooseberry Cr.	"	" "	13&23-13S-5E	8800	"	62.6	52.9	59.8	20.6
42	Mammoth R.S.	"	"	1mi. N. Scofield	32-12S-7E	7600	Off Forest	18.0	24.0	26.6	6.1
42A	Stahley Ranch	Clear Cr.	"	7mi. NE. "	20-12S-8E	7800	"	28.7	31.5	35.5	9.0
42B	Dry Valley Divide	Fish Creek	"	1mi. N. Clear Cr.	28-13S-7E	8150	"	21.3	24.5	33.9	7.8
42C	Clear Creek	Clear Creek	"	7mi. E. Fairview	12&13-14S-5E	9800	Manti	75.4	64.2	70.2	27.2
43	Hunting-Ershoe	Huntington Cr.	"	6mi. E. Widtsoe	22-34S-1W	9500	Powell	30.7	11.3	43.8	3.3
53	Widtsoe Escalante	E. Fk. Escalante	"	Average for Drainage				42.3	47.8	44.6	13.5

Coverage for period of record.



# COLORADO RIVER WATERSHED

Summary of Federal and State Cooperative Snow Surveys  
Issued April 10, 1944, at Fort Collins, Colorado

No.	Main Drainage and Snow Cover	Local Drainage	State	Location		Elev.	National Forest	Apr. 1 Snow Cover Measurements			
				Locality	Description			Av. Snow Depth	Av. Water Content	1943	1944
COLORADO RIVER (Above Grand Junction)											
7	Park View*	Willow Cr.	Colo.	7mi. SE. Rand	24-5N-78W	9200	Routt	In.	In.	In.	In.
12	Phantom Valley	Colorado R.	"	11mi. N. Grand L.	7-5N-75W	9300	Ry. Mtn. N.P.	34.0	29.7	32.3	10.3
16	Berthoud Pass	Fraser R.	"	4mi. S. West Port.	35-28-75W	9700	Arapaho	53.4	32.6	30.1	9.5
19	Tennessee Pass*	Eagle River	"	Tennessee Pass	21-8S-80W	10200	Cochetopa	52.3	50.3	48.9	15.0
33	Ind. Pass Tunnel	Lincoln Gulch	"	W. Port Tunnel	30-11S-82W	10200	Holy Cross	35.4	31.5	30.3	6.2
34	N. Lost Trail Cr.	Crystal R.	"	3mi. E. Marble	20-11S-87W	9200	"	53.4	56.8	48.7	17.8
37	M. Fork Camp Cr.	Williams Fk.	"	13mi. N. Dillon	16-3S-77W	9000	Arapaho	46.6	44.6	50.7	14.0
44	Fiddler Gulch	Eagle River	"	2mi. E. Mitchell	1-8S-80W	11000	Holy Cross	34.6	34.3	28.3	10.0
45	Nast	Frying Pan R.	"	23mi. SE. Basalt	1-9S-83W	8700	"	50.9	50.9	43.9	14.2
54	Maroon Lake	Maroon Creek	"	8mi. SW. Aspen	7-11S-85W	9300	"	21.9	25.9	23.4	6.1
56	Mesa Lakes	Mesa Creek	"	15mi. E. Palisade	35-11S-96W	10000	Grand Mesa	--	47.3	--	--
59	Lulu	Lulu Creek	"	14mi. N. Grand L.	25-6N-76W	10200	Ry. Mtn. N.P.	58.7	41.0	61.6	18.3
62	Willow Creek P.	Willow Cr.	"	Willow Cr. Pass	1-1N-78W	9500	Arapaho	--	41.0	--	--
64	N. Inlet Grand L.	N. Inlet Cr.	"	4mi. NE. Grand L.	26-4N-75W	9000	Ry. Mtn. N.P.	42.4	41.0	37.0	12.2
65	Lake Irene	Beaver Creek	"	1mi. SW. Milner P.	8-5N-75W	10600	"	29.5	31.0	24.2	8.1
66	Thunderbolt Peak	Buchanan Cr.	"	5mi. E. Monarch L.	22-2N-74W	9500	Arapaho	62.7	64.4	59.9	15.9
69	Arrow	S. Ranch Cr.	"	Arrow	34-1S-75W	9900	"	51.5	55.3	47.3	19.7
70	Lapland	St. Louis Cr.	"	7mi. SW. Fraser	16-2S-76W	9300	"	33.4	33.9	33.6	8.9
79	Tremont Pass #2	Blue River	"	Fremont Pass	2-8S-79W	11400	"	37.1	46.8	36.2	10.7
91	Lynx Pass No. 2	Rock Cr.	"	7mi. NE. Toponas	27-2N-83W	9100	Routt	52.3	61.8	43.3	16.0
96	Shrine Pass	Blue River	"	Shrine Pass	15-6S-79W	10500	Arapaho	42.5	44.4	40.4	12.3
97	Grizzly Peak	"	"	1mi. W. Loveland F.	2-5S-76W	11250	"	54.7	61.2	47.4	16.8
				Average for Drainage				54.6	64.8	47.6	16.7
				Average for Drainage				44.1	45.1	40.8	13.1
YAMPA RIVER											
6	Dry Lake	Soda Creek	Colo.	4mi. NE. Steam Spgs	26-7N-84W	8200	Routt	57.0	60.0	50.1	19.9
8	Columbine Lodge*	Harrison Cr.	"	Rt. Ears. Pass	21-5N-82W	9300	"	64.8	72.0	68.0	21.6
9	Elk River	Independence Cr.	"	Columbine	6-10N-85W	8700	"	53.5	47.8	54.7	16.3
91	Lynx Pass No. 2*	Morrison Cr.	"	7mi. NE. Toponas	27-2N-83W	9100	"	42.5	44.4	40.4	12.8
10	Rambler R. S.	Little Snake R.	Wyo.	13mi. SW. Encampment	25-14N-86W	8600	Medicine Bow	--	64.4	--	--
				Average for Drainage				54.4	56.3	53.3	17.6
WHITE RIVER											
35	Burro Mountain	N. Elk Creek	Colo.	8mi. S. Buford	15-2S-91W	9000	White River	54.8	42.4	53.7	18.7
36	Rio Blanco	White River	"	4mi. NW. Trappers	28-1N-88W	8500	"	44.9	45.5	32.0	14.9
				Average for Drainage				49.8	44.0	45.8	16.8

\*On adjacent drainage @Average for period of record



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				Locality	Description			Av. Snow Depth	Av. Water Content	1943	1944
								In.	In.	In.	In.
18	GUNNISON RIVER	Slate River	Colo.	3mi. N. Crested B.	22-13S-86W	9000	Gunnison	46.4	47.3	15.4	19.7
42		Marshall Cr.	"	Marshall Pass	24-48N-6E	10800	Cochetopa	46.4	41.9	13.7	15.0
43		"	"	"	"	10500	"	37.6	33.6	11.6	13.3
46		Taylor Creek	"	Taylor Park Res.	19-48N-7E	9700	Gunnison	33.8	29.9	9.2	12.4
53		Kiser Creek	"	10mi. N. Cedaredge	2-12S-95W	10000	Grand Mesa	73.4	80.3	24.4	17.8
55		Snowshoe Cr.	"	16mi. NE. Paonia	14-13S-89W	7500	Gunnison	24.9	26.0	7.8	9.8
58		Red Mtn. Cr.	"	5mi. S. Ouray	29-43N-7W	9800	Uncompahgre	44.6	41.9	14.8	14.8
85		Surface Cr.	"	13mi. N. Cedaredge	23-11S-94W	10000	Grand Mesa	82.1	71.2	27.4	24.8
87		"	"	11mi. "	34-11S-94W	9500	"	77.5	65.3	25.4	22.1
89		Porphyry Cr.	"	Monarch Pass	19-49N-6E	10800	Cochetopa	55.7	53.5	16.9	18.5
94		Henson Cr.	"	10mi. W. Lake City	35-44N-6W	10200	Gunnison	39.8	41.1	12.5	13.1
				Average		for Drainage		52.2	49.6	16.7	17.4
23	DOLORES RIVER	Dolores R.	Colo.	2mi. S. Rico	11-38N-11W	8700	Montezuma	31.2	40.8	9.1	13.7
24		San Miguel R.	"	Telluride	6-42N-8W	8600	"	26.5	25.4	7.9	8.6
25		Dolores R.	"	10mi. N. Rico	24-41N-10W	10300	"	57.5	62.0	18.0	21.1
90		Ground Hog Cr.	"	16mi. N. W. Rico	23-41N-13W	8900	"	42.2	44.3	14.9	15.8
				Average		for Drainage		39.4	43.1	12.5	14.8
26	SAN JUAN RIVER	Wolf Creek	Colo.	Wolf Creek Pass	4-37N-2E	10000	Rio Grande	85.6	73.8	31.1	30.0
29		"	"	4mi. W. Wolf Cr. P.	10-37N-1E	10000	San Juan	100.0	88.8	35.5	35.1
30		Animas R.	"	2mi. NE. Silverton	10-41N-7W	9400	"	20.4	16.6	4.9	4.3
31		Cascade Cr.	"	5mi. N. Electra L.	12-39N-9W	8850	"	34.8	33.6	11.2	11.3
93		Los Pinos R.	"	11mi. NE. Columbus	24-37N-6W	7950	San Juan	26.0	20.1	12.9	10.2
17		Amargo R.	N. Mex.	6mi. W. Chama	36.9N106.7W	7750	Off Forest	8.8	0.0	2.9	0.0
18		Navajo R.	"	6mi. N. W. Chama	36.9N106.7W	8500	"	40.7	25.3	9.9	8.7
				Average		for Drainage		43.7	36.9	15.5	14.2

\*On adjacent drainage

@Average for period of record



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								Av. Snow Depth	Av. Water Content	1943	1944
								In.	In.	In.	In.
<b>GILA RIVER</b>											
11	Frisco Divide	Blue River	N. Mex.	6mi. S. Luna	31-6S-20W	8000	Apache	1.1	0.0	2.1	0.3
14	State Line	"	"	Alpine; Luna	6-6S-21W	8000	"	0.5	0.0	0.0	0.2
22	Taylor Creek	Taylor Creek	"	2mi. N.E. Inmans	20-10S-10W	7850	Gila	0.0	0.0	0.0	0.0
3	Nutriso	San Fran. R.	Ariz.	5mi. SE. Nutriso	23-6N-30E	8500	Apache	0.4	0.0	0.0	0.1
4	Beaver Head	Castro Cr.	"	11mi. SW. Alpine	13-4N-30E	8000	"	0.9	0.0	0.0	0.4
5	Coronado Trail	Coleman Cr.	"	4mi. S.	26-5N-30E	8000	"	1.3	0.0	0.0	0.5
6	McNary	Salt River	"	3mi. NW. McNary	14-8N-23E	7200	W.M. Ind. R.	0.0	0.0	0.0	0.0
7	Forest Dale	"	"	5mi. SW. Showlow	2-9N-21E	6000	"	0.0	0.0	0.0	0.0
9	Milk Ranch	"	"	4mi. W. McNary	28-8N-23E	7000	"	0.0	0.0	0.0	0.0
					Average for Drainage			0.5	0.0	0.2	0.2
<b>COLORADO</b>											
(Green to Virgin Rivers)											
47	G.B.E.S. Alpine*	Seeley Creek	Utah	8mi. SE. Ephraim	26-17S-4E	10200	Manti	65.3	47.1	72.1	22.4
48	Seeley Cr. R.S.	"	"	9mi. "	25-17S-4E	10000	"	62.2	39.9	67.3	21.2
51	Fish Lake	Freemont Cr.	"	2mi. SW. Fish Lake	35-26S-1E	8700	Fish Lake	25.8	13.8	40.5	6.7
54	Bryce Cañon N.P.*	Paria River	"	Bryce Canyon	36-36S-4W	8000	Bryce N.P.	16.4	0.0	31.4	5.8
64	La Sal Mountain	Mill Creek	"	14mi. SE. Moab	29-26S-24E	8500	La Sal	33.3	34.8	40.1	9.6
65	Buckboard Flat	Montezuma Cr.	"	6mi. W. Monticello	36-33S-22E	9000	"	48.2	40.5	65.1	15.6
					Average for Drainage			41.9	29.4	52.8	13.6
<b>VIRGIN RIVER</b>											
56	Gravel Spgs. Jnct.	Virgin River	Utah	31mi. N. Kanab	22-38S-6W	7500	Dixie	15.5	17.9	28.7	6.3
57	Harris Flat R.S.*	"	"	29mi. SE. Cedar	24-38S-7W	7700	"	29.7	26.5	40.1	11.3
58	Duck Creek R.S.*	N. Fk. Virgin R.	"	22mi. "	11-38S-8W	8560	"	51.1	48.3	55.2	17.8
59	Cedar Breaks*	Virgin River	"	14mi. "	13-37S-9W	10200	"	73.2	66.3	76.4	25.9
61	Webster Flats RS*	"	"	11mi. "	20-37S-9W	9200	"	57.4	57.5	68.9	21.2
					Average for Drainage			45.4	43.3	53.9	16.5

\*On adjacent drainage

C Average for period of record.